

5'	TCT	GGG	AAG	TAG	AGG	TGT	TGT	GCT	GAG	CGG	CGC	TCG	CGG	AAC	TGT	GTG	GAC	CGT.
	9		18		27		36		45		54							
	CTG	CTG	GGA	CTC	CGG	CCC	TGC	GTG	CGC	TCA	GCC	CCG	TGG	CCC	CGC	GCA	CCT	ACT
	63		72		81		90		99		108							
	GCC	ATG	GAG	ACG	CGG	CCT	CGT	CTC	GGG	GCC	ACC	TGT	TTG	CTG	GGC	TTC	AGT	TTC
	M	E	T	R	P	R	L	G	A	T	C	L	L	G	F	S	F	
	117		126		135		144		153		162							
	CTG	CTC	GTC	ATC	TCT	TCT	GAT	GGA	CAT	AAT	GGG	CTT	GGA	AAG	GGT	TTT	GGA	
	L	L	V	I	S	S	D	G	H	N	G	L	G	K	G	F	G	
	171		180		189		198		207		216							
	GAT	CAT	ATT	CAT	TGG	AGG	ACA	CTG	GAA	GAT	GGG	AAG	AAA	GAA	GCA	GCT	GCC	AGT
	D	H	I	H	W	R	T	L	E	D	G	K	K	E	A	A	S	
	225		234		243		252		261		270							
	GGA	CTG	CCC	CTG	ATG	GTG	ATT	ATT	CAT	AAA	TCC	TGG	TGT	GGA	GCT	TGC	AAA	GCT
	G	L	P	L	M	V	I	I	H	K	S	W	C	G	A	C	K	A
	279		288		297		306		315		324							
	CTA	AAG	CCC	AAA	TTT	GCA	GAA	TCT	ACG	GAA	ATT	TCA	GAA	CTC	TCC	CAT	AAT	TTT
	L	K	P	K	F	A	E	S	T	E	I	S	E	L	S	H	N	F
	333		342		351		360		369		378							

FIGURE 1A

387	GTT ATG GTA AAT CTT GAG GAT GAA GAG CCC AAA GAT GAA GAT TTC AGC CCT	405	414	423	432
V M V N L E D E E E P K D E D F S P					
441	GAC GGG GGT TAT ATT CCA CGA ATC CTT TTT CTG GAT CCC AGT GGC AAG GTG CAT	459	468	477	486
D G G Y I P R I L F L D P S G K V H					
495	CCT GAA ATC ATC AAT GAG AAT GGA AAC CCC AGC TAC AAG TAT TTT TAT GTC AGT	513	522	531	540
P E I I N E N G N P S Y K Y F Y V S					
549	GCC GAG CAA GTT GTT CAG GGG ATG AAG GAA GCT CAG GAA AGG CTG ACG GGT GAT	567	576	585	594
A E Q V V Q G M K E A Q E R L T G D					
603	GCC TTC AGA AAG AAA CAT CTT GAA GAT GAA TTG TAA CAT GAA TGT GCC CCT TCT	621	630	639	648
A F R K K H L E D E L					
657	TTC ATC AGA GTT AGT GTT CTG GAA GGA AAG CAG CAG GGA AGG GAA TAT TGA GGA	675	684	693	702
711	ATC ATC TAG AAC AAT TAA GCC GAC CAG GAA ACC TCA TTC CTA ACA CTG GAA	729	738	747	756

FIGURE 1B

765	774	783	792	801	810
GGA GCG CTC TCA CTG TGG AAG AGT TCT GCT AAC AGA AGC TGG TCT GCA TGT TTG					
819	828	837	846	855	864
TGG ATC CAG CGG AGA GTG GCA GAC TTT CTT CTC CTT TTC CCT CTC ACC TAA ATG					
873	882	891	900	909	918
TCA ACT TGT CAT TGA ATG TAA AGA ATG AAA CCT TCT GAC ACA AAA CTT GAG CCA					
927	936	945	954	963	972
CTT GGA TGT TTA CTC CTC GCA CTT AAG TAT TTG AGT CTT TTC CCA TTT CCT CCC					
981	990	999	1008	1017	1026
ACT TTA CTC ACC TTA GTG GTG AAA GGA GAC TAG TAG CAT CTT TTC TAC AAC GTT					
1035	1044	1053	1062	1071	1080
AAA ATT GCA GAA GTA GCT TAT CAT TAA AAA ACA ACA ACA ATA ACA ATA					
1089	1098	1107	1116	1125	1134
AAT CCT AAG TGT AAA TCA GTT ATT CTA CCC CCT ACC AAG GAT ATC AGC CTG TTT					
1143	1152	1161	1170	1179	1188
TTT CCC TTT TTT CTC CTG GGA ATA ATT GTG GGC TTC TTC CCA AAT TTC TAC AGC					
1197	1206	1215	1224	1233	1242
CTC TTT CCT CTT CTC ATG CTT GAG CTT CCC TGT TTG CAC GCA TGC GTG TGC AGG					

FIGURE 1C

1251	1260	1269	1278	1287	1296
ACT GGC TGT GTG CTT GGA CTC GGC TCC AGG TGG AAG CAT GCT TTC CCT TGT TAC					
1305	1314	1323	1332	1341	1350
TGT TGG AGA AAC TCA AAC CTT CAA GCC CTA GGT GTA GCC ATT TTG TCA AGT CAT					
1359	1368	1377	1386	1395	1404
CAA CTG TAT TTT TGT ACT GGC ATT AAC AAA AGA GAT AAA ATA TTG TAC CAT					
1413	1422	1431	1440		
TAA ACT TTA ATA AAA CTT TAA AAG GAA AAA AAA AAA 3'					

FIGURE 1D

5'	GGG	GAG	GCG	GGG	CGA	GAC	CTA	CGA	CGC	CGG	CGA	GCA	GTG	GCC	GTT	ACG	GCC	GAA	55
64	AAG	ATG	GCG	GTC	TTTG	GCA	CCT	CTA	ATT	GCT	CTC	GTG	TAT	TCG	GTG	CCG	CGA	CTT	109
	M	A	V	L	A	A	P	L	I	A	L	V	Y	S	V	P	R	L	
118	TCA	CGA	TGG	CTC	GCC	CAA	CCT	TAC	TAC	CTT	CTG	TCG	GCC	CTG	CTC	TCCT	GCT	GCC	163
	S	R	W	L	A	Q	P	Y	Y	L	L	S	A	L	L	S	A	A	
172	TTC	CTA	CTC	GTG	AGG	AAA	CTG	CCG	CCG	CTC	TGC	CAC	GGT	CTG	CCC	ACC	CAA	CGC	217
	F	L	L	V	R	K	L	P	P	L	C	H	G	L	P	T	Q	R	
226	GAA	GAC	GGT	AAC	CCG	TGT	GAC	TTT	GAC	TGG	AGA	GAA	GTG	GAG	ATC	CTG	ATG	TTT	271
	E	D	G	N	P	C	D	F	D	W	R	E	V	E	I	L	M	F	
280	CTC	AGT	GCC	ATT	GTG	ATG	ATG	AAG	AAC	CGC	AGA	TCC	ATG	TTT	CTG	ATG	ACG	TGC	325
	L	S	A	I	V	M	M	K	N	R	R	S	M	F	L	M	T	C	
334	AAA	CCC	CCC	CTA	TAT	ATG	GGC	CCT	GAG	TAT	ATC	AAG	TAC	TTC	AAT	GAT	AAA	ACC	379
	K	P	P	L	Y	M	G	P	E	Y	I	K	Y	F	N	D	K	T	

388	ATT GAT GAG GAA CTA GAA CGG GAC AAG AGG GTC ACT TGG ATT GTG GAG TTC TTT.	433
I D E E L E L E R D K K R V T W I V E F F		
442	GCC AAT TGG TCT AAT GAC TGC CAA TCA TTT GCC CCT ATC TAT GCT GAC CTC TTC	487
A N W S N D C Q S F A P I Y A D L S		
496	CTT AAA TAC AAC TGT ACA GGG CTA AAT TTT GGG AAG GTG GAT GTT GGA CGC TAT	541
L K Y N C T G L N F G K V D V G R Y		
550	ACT GAT GTT AGT ACG CGG TAC AAA GTG AGC ACA TCA CCC CTC ACC AAG CAA CTC	595
T D V S T R Y K V S T S P L T K Q L		
604	CCT ACC CTG ATC CTG TTC CAA GGT GGC AAG GAG GCA ATG CGG CGG CCA CAG ATT	649
P T L I L F Q G G K E A M R R P Q I		
658	GAC AAG AAA GGA CGG GCT GTC TCA TGG ACC TTC TCT GAG AAT GTG ATC CGA	703
D K K G R A V S W T F S E E N V I R		
712	GAA TTT AAC TTA AAT GAG CTA TAC CAG CGG GCC AAG AAA CTA TCA AAG GCT GGA	757
E F N L N E L Y Q R A K K L S K A G		

FIGURE 2B

766	775	784	793	802	811
GAC AAT ATC CCT GAG GAG CAG CCT GTG GCT TCA ACC CCC ACC ACA GTG TCA GAT					
D N I P E E Q P V A S T P T V S D					
820	829	838	847	856	865
GGG GAA AAC AAG AAG GAT AAA TAA GAT CCT CAC TTT GGC AGT GCT TCC TCT CCT					
G E N K K D K					
874	883	892	901	910	919
GTC AAT TCC AGG CTC TTT CCA TAA CCA CAA GCC TGA GGC TGC AGC CTT TTA TTT					
928	937	946	955	964	973
ATG TTT TCC CTT TGG CTG TGA CTG GGT GGG GCA GCA TGC AGC TTC TGA TTT TAA					
982	991	1000	1009	1018	1027
AGA GGC ATC TAG GGA ATT GTC AGG CAC CCT ACA GGA AGG CCT GCC ATG CTG TGG					
1036	1045	1054	1063	1072	1081
CCA ACT GTT TCA CTG GAG CAA GAA AGA GAT CTC ATA GGA CGG AGG GGG AAA TGG					
1090	1099	1108	1117	1126	1135
TTT CCC TCC AAG CTT GGG TCA GTG TGT TAA CTG CTT ATC AGC TAT TCA GAC ATC					
1144	1153	1162	1171	1180	1189
TCC ATG GTT TCT CCA TGA AAC TCT GTG GTT TCA TCA TTC CTT CTT AGT TGA CCT					
1198	1207	1216	1225	1234	1243
GCA CAG CTT GGT TAG ACC TAG ATT TAA CCC TAA GGT AAG ATG CTG GGG TAT AGA					

FIGURE 2C

1252	1261	1270	1279	1288	1297
ACG CTA AGA ATT TTC CCC CAA GGA CTC TTG CTT CCT TAA GCC CTT CTG GCT TCG					
1306	1315	1324	1333	1342	1351
TTT ATG GTC TTC ATT AAA AGT ATA AGC CTA ACT TTG TCG CTA GTC CTA AGG AGA					
1360	1369	1378	1387	1396	1405
AAC CTT TAA CCA CAA AGT TTT TAT CAT TGA AGA CAA TAT TGA ACA ACC CCC TAT					
1414	1423	1432	1441	1450	1459
TTT GTG GGG ATT GAG AAG GGG TGA ATA GAG GCT TGA GAC TTT CCT TTG TGT GGT					
1468	1477	1486	1495	1504	1513
AGG ACT TGG AGG AGA AAT CCC CTG GAC TTT CAC TAA CCC TCT GAC ATA CTC CCC					
1522	1531	1540	1549		
ACA CCC AGT TGA TGG CTT TCC GTA ATA AAA AGA TTG GGA TTA 3'					

FIGURE 2D